Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	Keenchenahalli Burial ground
Material	Cement
Sample No	1
Sample Collected Date	3-Jun-2020
Test Date	5-Jun-2020

Consistency test

Consistency test of Cement	Trail No	Weight of Cement	Percentage of water added (%)	Weight of Water (gm)	Initial Reading of Plunger (mm)	Difference (mm)
	1	400	29.0	116	40	17
	2	400	28.5	114	40	18.5
	3	400	28.0	112	40	12
	4	400	29.5	118	40	8.5
	5	400	30.5	122	40	6.5

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Results: Standard Consistency of Cement: 30.50%

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Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	Keenchenahalli Burial ground
Material	Cement
Sample No	1
Sample Collected Date	3-Jun-20
Test Date	5-Jun-20

Fineness Test of Cement

Sl. No.	Weight of Cement Sample	Weight Cement Sample Retained on 90μm Sieve (gms)	Fineness of Cement (%)	Average (%)
1	100 gm	5.5	5.5	6.80
2	100 gm	6.35	6.35	
3	100 gm	8.55	8.55	

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Results: Residue of cement is: 6.80%

Comments: Maximum allowable residue by mass for ordinary portlad cement is 10%

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Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Keenchenahalli Burial ground
Material	Cement
Size of cubes	70.60x70.60x70.60mm
Cross Sectional Area	4984.36 mm2
Sample No	1
Sample Collected Date	3-Jun-2020
Test Date	10-Jun-2020

Compressive strength of Cement

Cube	Cement Grade	Age at Test (Days)	Weight (kg)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	7	1.00	2278.03	186	4984.36	37.32	36.21
2	43	7	1.00	2278.03	175	4984.36	35.11	

Results: 7-days Compressive strength of cement is 36.21N/mm^2

Comments: 7-days Compressive strength of cement should not be less than 33 N/mm^2

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Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Keenchenahalli Burial ground
Material	Cement
Size of cubes	70.60x70.60x70.60mm
Cross Sectional Area	4984.36 mm2
Sample No	1
Sample Collected Date	22-Jun-2020
Test Date	29-Jun-2020

Compressive strength of Cement

Cube	Cement Grade	Age at Test (Days)	Weight (kg)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	28	1.00	2278.03	220	4984.36	44.14	44.54
2	43	28	1.00	2278.03	224	4984.36	44.94	

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Result: 7-days Compressive strength of cement is 44.54N/mm²

Comments: 28-days Compressive strength of cement should not be less than 43 N/mm²

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Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Keenchenahalli Burial ground
Material	Fine Aggregates
Sample No	1
Sample Collected Date	3-Jun-2020
Test Date	5-Jun-2020

Gradation of Fine Aggregate

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0	0.00	0.00	100.00	100	
2	4.75 mm	15	7.50	7.50	92.50	90-100	Gradation satisfies the MORT&H Zone II Specification for PQC
3	2.36 mm	25	12.50	20.00	80.00	75-100	
4	1.18 mm	10	5.00	25.00	75.00	55-90	
5	600 μ	53	26.50	51.50	48.50	35-59	
6	300 μ	71	35.50	87.00	13.00	8-30	
7	150 μ	10	5.00	92.00	8.00	0-10	

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Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Keenchenahalli Burial ground
Material	Fine Aggregates
Sample No	2
Sample Collected Date	22-Jun-2020
Test Date	24-Jun-2020

Gradation of Fine Aggregate

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0	0.00	0.00	100.00	100.00	Gradation satisfies the MORT&H Zone II Specification for PQC
2	4.75 mm	11	5.50	5.50	94.50	90-100	
3	2.36 mm	18	9.00	14.50	85.50	75-100	
4	1.18 mm	20	10.00	24.50	75.50	55-90	
6	600 μ	38	19.00	43.50	56.50	35-59	
6	300 μ	55	27.50	71.00	29.00	8-30	
7	150 μ	42	21.00	92.00	8.00	0-10	

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Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Keenchenahalli Burial ground
Material	Coarse aggregates
Sample No	2
Sample Collected Date	22-Jun-2020
Test Date	24-Jun-2020

Gradation of Coarse Aggregate

Weight of Sample: 4000 gms

Sl. No	I.S. Sieve size	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	31.50	0	0.00	0.00	100.00	100	
2	26.50	492	12.30	12.30	87.70	85-95	
3	19.00	386	9.65	21.95	78.05	68-88	
4	9.50	562	14.05	36.00	64.00	45-65	
5	4.75	381	9.53	45.53	54.48	30-55	
6	0.60	986	24.65	70.18	29.83	8-30	
7	0.15	784	19.60	89.78	10.23	5-15	
8	0.08	112	2.80	92.58	7.43	0-5	

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Project Management Services

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Test Report

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Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Keenchenahalli Burial ground
Material	Coarse aggregates
Sample No	1
Sample Collected Date	3-Jun-2020
Test Date	5-Jun-2020

Water Absorption of Coarse Aggregate

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of SSD sample	W_1 g	800	800	
2	Wt of Basket Filled with Aggregates Immersed in water	W_2g	1951	2104	
3	Weight of Saturated Aggregate in water	W_3g = W_2- W_1	1151	1304	
4	Weight of saturated surface dry aggregate in Air	W_3 g	1986	2129	
5	Weight of water equal to the Volume of the Aggregate	W_3- W_4	835	825	
6	Weight of Oven dried Aggregate	W_4g	1947	2100	
7	Specific Gravity	W_4/(W_3- W_5)	2.33	2.55	2.44
8	Apparent Specific Gravity	W_4/(W_4- W_5)	2.45	2.64	2.54
9	Water Absorption	(W_4- W_5)*100/ W_4	2	1.38	1.69

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Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

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Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M15)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	10-Jul-2020
Test Date	17-Jul-2020

Compresive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength	Avg. Strength
1	15	7	5.00	1481.48	218	22500.00	9.69	
2	15	7	5.00	1481.48	225	22500.00	10.00	
3	15	7	5.00	1481.48	221	22500.00	9.82	
4	15	7	5.00	1481.48	234	22500.00	10.40	10.08
5	15	7	5.00	1481.48	229	22500.00	10.18	
	15	7	5.00	1481.48	234	22500.00	10.40	

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Results: 7-days Compressive strength of ceme 10.08 N/mm2

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Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Keenchenahalli Burial ground
Material	Concrete for Footing
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	1-Jun-2020
Test Date	8-Jun-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	318	22500.00	14.13	14.19
2	20	7	5.00	1481.48	324	22500.00	14.40	
3	20	7	5.00	1481.48	315	22500.00	14.00	
4	20	7	5.00	1481.48	321	22500.00	14.27	
5	20	7	5.00	1481.48	324	22500.00	14.40	
6	20	7	5.00	1481.48	314	22500.00	13.96	

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Results: 7-days Compressive strength of cement is **14.19** N/mm2

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QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Keenchenahalli Burial ground
Material	Concret for Column
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	3-Jun-2020
Test Date	10-Jun-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	308	22500.00	13.69	
2	20	7	5.00	1481.48	318	22500.00	14.13	
3	20	7	5.00	1481.48	324	22500.00	14.40	
4	20	7	5.00	1481.48	329	22500.00	14.62	14.25
5	20	7	5.00	1481.48	321	22500.00	14.27	
6	20	7	5.00	1481.48	324	22500.00	14.40	

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A.E.E

Results: 7-days Compressive strength of cement is **14.25** N/mm2

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Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No 01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Keenchenahalli Burial ground
Material	Concrete for Footing
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	1-Jun-2020
Test Date	29-Jun-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m³)	Max. Load (KN)	Area (mm²)	Compressive Strength (N/mm²)	Avg. Strength
1	20	28	5.00	1481.48	526	22500.00	23.38	
2	20	28	5.00	1481.48	534	22500.00	23.73	
3	20	28	5.00	1481.48	518	22500.00	23.02	
4	20	28	5.00	1481.48	512	22500.00	22.76	23.27
5	20	28	5.00	1481.48	518	22500.00	23.02	
6	20	28	5.00	1481.48	534	22500.00	23.73	

AE-2
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Results: 28-days Compressive strength of cement is **23.27** N/mm2

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

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Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Keenchenahalli Burial ground
Material	Concrete for Footing
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	1-Jun-2020
Test Date	29-Jun-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m³)	Max. Load (KN)	Area (mm²)	Compressive Strength (N/mm²)	Avg. Strength
1	20	28	5.00	1481.48	518	22500.00	23.02	
2	20	28	5.00	1481.48	524	22500.00	23.29	
3	20	28	5.00	1481.48	536	22500.00	23.82	
4	20	28	5.00	1481.48	514	22500.00	22.84	23.21
5	20	28	5.00	1481.48	518	22500.00	23.02	
6	20	28	5.00	1481.48	524	22500.00	23.29	

AE-2

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Results: 28-days Compressive strength of cement is **23.21** N/mm2

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Keenchenahalli Burial ground
Material	Concret for Column
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	3-Jun-2020
Test Date	1-Jul-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m³)	Max. Load (KN)	Area (mm²)	Compressive Strength (N/mm²)	Avg. Strength
1	20	28	5.00	1481.48	518	22500.00	23.02	
2	20	28	5.00	1481.48	524	22500.00	23.29	
3	20	28	5.00	1481.48	536	22500.00	23.82	
4	20	28	5.00	1481.48	514	22500.00	22.84	23.35
5	20	28	5.00	1481.48	525	22500.00	23.33	
6	20	28	5.00	1481.48	535	22500.00	23.78	

AE-2

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Results: 28-days Compressive strength of cement is **23.35** N/mm2

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Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Steel
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Steel
Sample No	1
Sample Collected	1-Jun-2020
Date	6-Jun-2020

Steel

Sl. No.	Dia in mm	Weight in Kg/mtr	Average Weight Kg/mtr	Ultimate Load in KN	Ultimate Tensile stress in N/mm²	Average Ultimate Tensile Stress N/mm²	Elongation in mm	Bending and Rebending
1	8	0.395	0.4	32.2	640.6	622.7	20	OK
	8	0.398		30.4	604.79			
2	10	0.601	0.6	47.2	600.97	597.15	20	OK
	10	0.593		46.6	593.33			
3	12	0.896	0.88	72.8	643.69	631.32	20	OK
	12	0.872		70	618.94			

AE-2

A.E.E

AE-02

For Qualiex Civil Design & Consultancy

QUALIEX CIVIL DESIGN & CONSULTANCY

Authorised Signature

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GSTIN: 29AYHPN8663P1ZA

QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Job No	Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21
Mix Type	Cement Concrete Blocks
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Keenchenahalli Burial ground
Material	Soild block
Sample No	1
Date	18-Jul-2020

Solid block

SL.NO	Failure Load in KN	CHARACTERISTIC COMPRESSIVE STRENGTH, fck , in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm	REMARKS
1	471	5.85	5.87	
2	468	5.8		
3	475	5.95		

A.E.E

Results: Compressive strength of solid block is 5.87 N/mm2

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Job No	Job No: QECD/BBMP/YNK/QC-1/P-3/W-2/2020-21
Mix Type	Cement Concrete Blocks
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Keenchenahalli Burial ground
Material	Soild block
Sample No	2
Date	18-Jul-2020

Solid block

SL.NO	Failure Load in KN	CHARACTERISTIC COMPRESSIVE STRENGTH, fck , in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm	REMARKS
1	476	5.62	5.76	
2	471	5.81		
	468	5.86		

A.E.E

Results: Compressive strength of solid block is 5.76 N/mm2

For Qualiex Civil Design & Consultancy

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